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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/727,834		12/04/2003	Ulrich Bonne	H0004834(1100.1205101)	7422
128	7590	05/09/2006		EXAM	INER
		TERNATIONAL IN	DOUGLAS, KA	DOUGLAS, KATHERINE L	
101 COLUMBIA ROAD P O BOX 2245				ART UNIT	PAPER NUMBER
MORRISTOWN, NJ 07962-2245				1743	
				DATE MAILED: 05/09/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Commons	10/727,834	BONNE ET AL.					
Office Action Summary	Examiner	Art Unit					
	Katherine L. Douglas	1743					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	ely filed the mailing date of this communication. 0 (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on							
	·						
3) Since this application is in condition for allowar	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits i						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1,3-12,38 and 40-50 is/are pending in	☑ Claim(s) <u>1,3-12,38 and 40-50</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,3-12,38 and 40-50</u> is/are rejected.	Claim(s) <u>1,3-12,38 and 40-50</u> is/are rejected.						
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) ☐ The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).					
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:		-(d) or (f).					
·	1. Certified copies of the priority documents have been received.						
- · · · ·	2. Copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
	or the contined copies not reserve	u .					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Paper No(s)/Mail Da 5) Notice of Informal P	atent Application (PTO-152)					
Paper No(s)/Mail Date	6) Other:						

DETAILED ACTION

Amendment filed on 6 March 2006 has been acknowledged. Claims 1, 3-12, 38, and 40-50 are pending.

Response to Amendment

Rejection of **claims 1-9 and 38-46** as being anticipated by Brandon (GB 2208707A) has been *modified* in light of applicant's amendments.

Rejection of **claims 10-12 and 47-50** as being unpatentable over Brandon in view of Chandler (USPN 6,592,822) has been *modified* in light of applicant's amendments.

Objection to claims 38-50 as being substantial duplicates of claims 1-12 has been *withdrawn* in light of applicant's amendments.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 and 3-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Brandon (GB 2208707A).

Brandon discloses an invention for the "detection of gaseous compounds" [page 1, paragraph 1]. This invention comprises "a gas absorbing cell having a chamber for liquid reagent separated fro a region containing sample gas by a gas permeable membrane, the chamber having an inlet port for connection to a supply of liquid reagent

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and an outlet port connected to the sensing apparatus for detecting a change in the liquid reagent due to the presence of the gas to be detected. . . . The analyser according to the invention enables a sample of a gaseous compound from, for example, ambient air to be collected by diffusion through the gas permeable membrane into the liquid reagent in the chamber, which may be stationary or moving. . . . In a preferred embodiment the sensing apparatus is an optical sensor, preferably a photometer. The output from the photometer may be processed electronically to provide an indicated value of the ambient gas concentration. The electronic circuitry may be constructed so as to provide an alarm signal" [pages 1-3]. Brandon discloses that the optical cell "may be mounted on the same body 40 of the gas absorbing cell 15 as indicated at 60 in Fig. 4" [page 8, paragraph 1]. Brandon also notes that "A second embodiment of the invention allows for "an optical cell comprising a body with a transverse bore closed at its ends by windows, an inlet connected to the bore adjacent one of its ends and an outlet connected to the bore adjacent the other of its ends, the inlet being connected to a source of fluid whereby fluid passes from the inlet to the outlet through the bore, a light source mounted outside one window and a photo detector being mounted outside the other window so that the photo detector detects light from the light source passing through the liquid in the bore" [page 3]. A third embodiment describes a container of liquid with a "pulsed valve" [page 3] that is connected to the output of the enclosure.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brandon in view of Chandler (USPN 6,592,822).

Brandon does not specifically teach using multiple laser light sources that have different wavelengths or the use of a flow sensor. However, Chandler discloses "the instant invention provides a multi-analyte diagnostic system for use with a computer. The diagnostic system, for example, includes a flow analyzer including, a substantially co-planar optical assembly having at least one light source and at least one optical detector" [column 7, lines 15-19]. He goes on to further describe the light sources, saying "the plurality of light sources, optionally, include two light sources. Each light source, optionally, emits respective two distinct wavelengths of light" [column 7, lines 49-51]. Therefore, considering the teachings of Brandon in view of the teachings of Chandler, it would have been obvious to one of ordinary skill in the art at the time of the invention to include the multiple light sources, using lasers of different wavelengths, as well as including a flow sensor for the purposes of expanding the range of possible analytes and, as indicated by Chandler, "it is desirable to minimize the testing time to increase the number of tests that can be performed over a predetermined time interval" [column 2, lines 64-67].

5. Claims 38 and 40-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brandon in view of Chun et al. (USPN 6,727,099).

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Brandon does not specifically disclose a tubular permeable membrane enclosure, however, it is well known in the art that permeable membrane enclosures are often tubular in shape. Chun et al. disclose an analyzer that, as seen in figure 1, is a tubular permeable membrane. It would have been obvious to modify the analyzer of Brandon to use a tubular permeable membrane for the purpose of making the device more cheaply, or using a specific geometry to make calculations simpler.

6. Claims 47-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brandon in view of Chun et al. further in view of Chandler. Brandon as modified by Chun et al. does not specifically teach using multiple laser light sources that have different wavelengths or the use of a flow sensor.

The teachings of Brandon are above. It would have been obvious to one of ordinary skill in the art at the time of the invention to include the multiple light sources, using lasers of different wavelengths, as well as including a flow sensor for the purposes of expanding the range of possible analytes and, as indicated by Chandler, "it is desirable to minimize the testing time to increase the number of tests that can be performed over a predetermined time interval" [column 2, lines 64-67].

Response to Arguments

- 7. Applicant's arguments filed 6 March 2006 have been fully considered but they are not persuasive. The sensor of Brandon can be in the same body as the gas absorbing cell, as stated on page 8 on lines 2-4.
- 8. Applicant's arguments with respect to **claims 38 and 40-50** have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Katherine L. Douglas whose telephone number is 571-272-1207. The examiner can normally be reached on Monday - Friday, 8:00 am - 4:30 pm, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 571-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

kld

Supervisory Patent Examiner Technology Center 1700